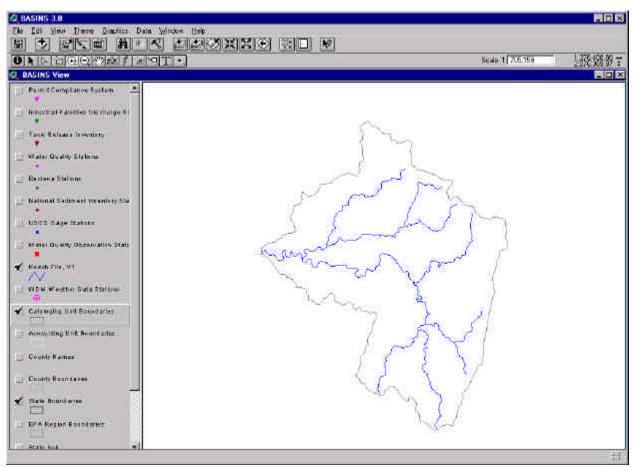
# **5 Basins Components - Extension Manager**

## **BASINS Customized ArcView Interface**

The BASINS customized ArcView Interface contains all of the menu, button, and tool bar items that are present in the standard ArcView interface. These standard components provide access to ArcView's data query, spatial analysis, and map generation tools. Other tools and menus specific to BASINS are activated through the *BASINS Extension Manager*. From the BASINS Extension Manager, a user may manage the active BASINS extensions for the current project. This extension manager is used to access a number of additional menus and tool bar items that execute BASINS Assessment Tools, BASINS Utilities, Watershed Characterization Reports, Instream Water Quality Models, and Watershed Models (HSPF and SWAT). The BASINS Customized ArcView Interface is displayed in Screen 5.1.



Screen 5.1

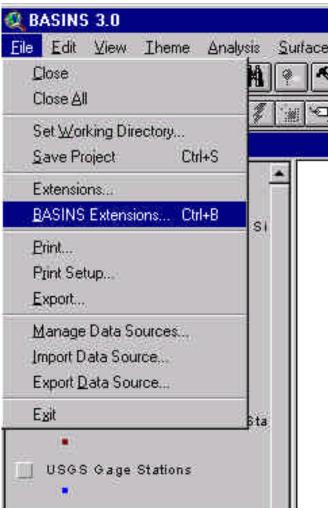
## **Standard ArcView Tool Bar Items**

The following ArcView tool bar items are present in the BASINS Customized ArcView Interface. They are used throughout this manual. Use this section as a reference during execution of BASINS functions.

| Save Project               |                                              | Zoom In                          | 洸            | Select Feature   |              |
|----------------------------|----------------------------------------------|----------------------------------|--------------|------------------|--------------|
| Theme Properties           |                                              | Zoom Out                         | $\mathbb{Z}$ | Zoom In          | $\odot$      |
| Edit Legend                | <u>*************************************</u> | Zoom to Previous Extent          |              | Zoom Out         | 23           |
| Open Theme Table           |                                              | Select Features Using<br>Graphic |              | Pan              | EM)          |
| Find                       |                                              | Clear Selected Features          |              | Measure          |              |
| Locate Address             | <b>P</b>                                     | Help                             | <b>N</b> ?   | Hot Link         | 7            |
| Query Builder              |                                              | Change Projection                |              | Area of Interest |              |
| Zoom to Full Extent        |                                              | Identify                         | 0            | Label            | 9            |
| Zoom to Active<br>Theme(s) |                                              | Pointer                          | K            | Text             | $\mathbf{T}$ |
| Zoom to Selected           |                                              | Vertex Edit                      |              | Draw Point       | • 📗          |

## **BASINS Extension Manager**

The BASINS Extension Manager is used to set which Basins Components are available in the current project. The extension manager is accessed through the File menu. See Screen 5.2.



Screen 5.2

BASINS Extensions are grouped into the following categories by function:

- Assess includes Target, Assess, and Data Mining
- Data includes NHD Import Tool, Add Shape (Theme), Add Shape (Grid), Grid Projector, Theme Manager, GenScn, and WDMUtil
- Delineate includes the Manual and Automatic Watershed Delineators
- Models includes HSPF, SWAT, PLOAD, and QUAL2e
- Reports includes Reports with Spatial Analyst, Reports without Spatial Analyst, and Lookup
- Utilities includes Land Use and Soil Reclasify and Overlay, Water Quality Observation Utility, and DEM Reclassify

To activate an extension, choose the extension category from the drop-down list in the BASINS Extension Manager. Then use the check box next to the extension name to turn that extension on or off. See Screen 5.3



Screen 5.3

The *Load All Extensions* button may be used to turn all BASINS extensions on at once. Once all extensions have been set as desired, the user may click the *OK* button to close the extension manager. The menu structure in the BASINS ArcView interface will be updated to reflect the active extensions.

#### **BASINS Assessment Tools**

The BASINS Assessment Tools consist of three geographically based tools *TARGET*, *ASSESS*, and *Data Mining*. These tools can be used to assess in-stream water quality conditions and point source discharges at the regional, watershed, and stream segment levels.

*TARGET* is accessed from the Target menu and provides two options: Water Quality and Permitted Discharges.

ASSESS is accessed from the Assess menu and provides the same options as TARGET, Water Quality and Permitted Discharges.

Data Mining is executed by selecting the Data Mining tool bar item. This tool is only available when either the PCS, Water Quality Stations, or Bacteria Station Theme is active.

## **Data Extensions**

Several BASINS extensions have been developed to assist with data management. The data management tools are used to update existing data or to add additional local or regional data to supplement or replace BASINS data products. The comprehensive data products included in BASINS were developed based on nationally available information and are suited for large-scale assessments. When dealing with localized small-basin analysis, however, higher-resolution data might be necessary to effectively capture the site-specific feature variability.

The Data Extension category also includes extensions to run GenScn and WDMUtil. GenScn facilitates the display and interpretation of timeseries data associated with model applications. WDMUtil is used to manage Watershed Data Management (WDM) files, which are used to store input and output timeseries data for the HSPF model.

#### **Delineation Tools**

The *Watershed Delineation* tools enable the user to define watershed boundaries at a level smaller than the 8-digit Cataloging Unit Boundary level. This function is executed by selecting the either the Manual or the Automatic Delineation option from the *Delineate* menu.

### **BASINS Utilities**

The BASINS Utilities provide the user with the ability to reclassify land use data, overlay land use and soils data, manipulate water quality observation data, and reclassify DEM data.

Land Use, Soils Class and Overlay is used to combine land use and soils themes for creating unique land-soil segments within each subwatershed.

Land Use Reclassification enables the user to reclassify a land use coverage imported into BASINS. This function is accessed by selecting Re-classify Land Use from the Utility menu.

Water Quality Observation Station Management enables the user to access and manipulate water quality observation station information and data. The station management tools are accessed by selecting the the Edit Water Quality Observation Station submenu under the Utilities menu to launch the "Water Quality Observation Tools" toolbar. The Water Quality Observation Tools toolbar is composed of a set of station management tools for adding, moving, editing and deleting water quality observation stations along with appending data to the water quality observation stations.

*DEM Reclassification* enables the user to reclassify DEM polygon data to better represent a study area. This function is accessed through selection of Re-classify DEM from the Utility menu.

# **Watershed Characterization Reports**

Watershed Characterization Reports assist in summarizing key watershed information. A number of reports can be developed to inventory and characterize both point and nonpoint sources at the watershed and subwatershed scale. Watershed Characterization Reports can be created by selecting Point Source Inventory Report, Water Quality Summary Report, Landuse Distribution Report, Landuse Distribution Report (Grid), Watershed Topographic Report, Watershed Topographic Report(Grid), Toxic Air Emission Report or State Soil Characteristic Report from the Reports menu.

## **Stream Water Quality Models**

QUAL2E is the instream water quality model that can be executed from BASINS. The BASINS system develops the input files required to run this model. QUAL2E is a steady-state, one-dimensional receiving water quality model. It is accessed through selection of QUAL2E from the Models menu.

#### **Watershed Models**

Two Watershed-scale models are included with BASINS: HSPF and SWAT.

*HSPF* is a watershed model integrating both point and nonpoint sources. It is capable of simulating nonpoint source runoff and associated pollutant loadings, accounting for point source discharges, and performing flow and water quality routing through stream reaches and well-mixed reservoirs. It is executed through selection of *HSPF* from the Models menu.

The Soil and Water Assessment Tool (SWAT) is a physical based, watershed scale model that was developed to predict the impacts of land management practices on water, sediment and agricultural chemical yields in large complex watersheds with varying soils, land uses and management conditions over long periods of time. It is executed through selection of SWAT from the Models menu.

## **BASINS Data Products**

The BASINS Version 3.0 system is distributed with several national, regional, and state-level data products. The data consist of base cartographic products (such as state and county boundaries) and environmental products (such as water quality monitoring and industrial facility locations). These data products are accessible within the BASINS system through Arcview standard mapping and analysis tools and through BASINS customized tools and models. Table 5.1 is a list of supported data products in BASINS Version 3.0, which also indicates data owners and reference web sites when available. The list is arranged so that it matches the default listing of data products in the table of contents of the BASINS View window. The name of the Arcview theme and related DBF tables are shown for each data product. The table also shows what models and tools are used to access the data product. Appendix A provides the definition of every attribute field within each data product. All BASINS2 data is documented using the Federal Geographic Data Committee (FGDC) metadata standard. A copy of the metadata can be obtained from <a href="http://www.epa.gov/ost/basins/metadata.htm">http://www.epa.gov/ost/basins/metadata.htm</a>.

**Table 5.1 BASINS Version 3.0 Data Products** 

| BASINS Data Product                                                                                                                                  | Theme Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | File Name                                                                                                                                                                                                               | Customized Models and Tools*                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Permit Compliance System (PCS) Sites and Computed Annual Loadings Source: US Environmental Protection Agency (USEPA). Ref: http://www.epa.gov/enviro | Permit Compliance System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | pcs3.dbf<br>pcs3.shp<br>pcs3.shx                                                                                                                                                                                        | Target, Assess, Data<br>Mining, Point Source<br>Inventory Report,<br>HSPF, QUAL2E |
| Related Table Names:                                                                                                                                 | Permitted Discharges<br>Parameter Table                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | pcs3-prm.dbf<br>[cu].dbf                                                                                                                                                                                                |                                                                                   |
| Industrial Facilities Discharge<br>(IFD) Sites<br>Source: USEPA                                                                                      | Industrial Facilities Discharge<br>Sites                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ifd.dbf<br>ifd.shp<br>ifd.shx                                                                                                                                                                                           | HSPF<br>QUAL2E                                                                    |
| Toxic Release Inventory (TRI) Sites and Pollutant Release Data Source: USEPA Ref: <a href="http://www.epa.gov/enviro">http://www.epa.gov/enviro</a>  | Toxic Release Inventory                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | tri.dbf<br>tri.shp<br>tri.shx                                                                                                                                                                                           | Toxic Air Emission<br>Report                                                      |
| Related Table Names:                                                                                                                                 | TRI Air Emission Data 1988 TRI Air Emission Data 1989 TRI Air Emission Data 1990 TRI Air Emission Data 1990 TRI Air Emission Data 1991 TRI Air Emission Data 1992 TRI Air Emission Data 1992 TRI Air Emission Data 1993 TRI Air Emission Data 1994 TRI Air Emission Data 1994 TRI Air Emission Data 1995 TRI Land Release Data 1987 TRI Land Release Data 1988 TRI Land Release Data 1989 TRI Land Release Data 1990 TRI Land Release Data 1991 TRI Land Release Data 1992 TRI Land Release Data 1993 TRI Land Release Data 1994 TRI Land Release Data 1995 TRI POTW Data 1991 TRI POTW Data 1992 TRI POTW Data 1993 TRI POTW Data 1993 TRI POTW Data 1994 | tri_ai87 tri_ai88 tri_ai89 tri_ai90 tri_ai91 tri_ai92 tri_ai93 tri_ai94 tri_ai95 tri_lr87 tri_lr88 tri_lr89 tri_lr90 tri_lr91 tri_lr92 tri_lr93 tri_lr94 tri_lr95 tri_lr95 tri_lr95 tri_pw91 tri_pw92 tri_pw93 tri_pw94 |                                                                                   |

|                             | TRI POTW Data 1995               | tri pw95    |
|-----------------------------|----------------------------------|-------------|
|                             | TRI Underground Injection        | tri ui87    |
|                             | Data 1987                        | tri_ui88    |
|                             | TRI Underground Injection        | tri ui89    |
|                             | Data 1988                        | tri ui90    |
|                             | TRI Underground Injection        | tri ui91    |
|                             | Data 1989                        | tri ui92    |
|                             | TRI Underground Injection        | tri_ui93    |
|                             | Data 1990                        | tri_ui94    |
|                             | TRI Underground Injection        | tri_ui95    |
|                             | Data 1991                        | tri_wd87    |
|                             | TRI Underground Injection        | tri_wd88    |
|                             | Data 1992                        | tri_wd89    |
|                             | TRI Underground Injection        | tri_wd90    |
|                             | Data 1993                        | tri_wd91    |
|                             | TRI Underground Injection        | tri_wd92    |
|                             | Data 1994                        | tri_wd93    |
|                             | TRI Underground Injection        | tri_wd94    |
|                             | Data 1995                        | tri_wd95    |
|                             | TRI Water Discharge Data<br>1987 | tri_prm.dbf |
|                             | TRI Water Discharge Data         |             |
|                             | 1988                             |             |
|                             | TRI Water Discharge Data         |             |
|                             | 1989                             |             |
|                             | TRI Water Discharge Data         |             |
|                             | 1990                             |             |
|                             | TRI Water Discharge Data         |             |
|                             | 1991                             |             |
|                             | TRI Water Discharge Data<br>1992 |             |
|                             | TRI Water Discharge Data         |             |
|                             | 1993                             |             |
|                             | TRI Water Discharge Data<br>1994 |             |
|                             | TRI Water Discharge Data         |             |
|                             | 1995                             |             |
|                             | TRI Parameter Table              |             |
|                             | THE I MINISTER I WOIL            |             |
| Superfund National Priority | National Priority List Sites     | cerclis.dbf |
| List Sites                  | Library Library                  | cerclis.shp |
| Source: USEPA               |                                  | cerclis.shx |
| Ref:                        |                                  |             |
| http://www.epa.gov/enviro   |                                  |             |
|                             | II110 1'1W '                     | 11.0        |
| Resource Conservation and   | Hazardous and Solid Waste        | reris.dbf   |
| Recovery Information System | Sites                            | rcris.shp   |
|                             |                                  |             |

| (RCRIS) Sites Source: USEPA Ref: <a href="http://www.epa.gov/enviro">http://www.epa.gov/enviro</a>                                 | Sites                                                                                                                                                                                                    | rcris.shx                                                                                                   |                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| Water Quality Monitoring<br>Stations & Data Summaries<br>Source: USEPA<br>Ref:<br>http://www.epa.gov/storet                        | Water Quality Stations                                                                                                                                                                                   | wq_stat.dbf<br>wq_stat.shp<br>wq_stat.shx                                                                   | Target, Assess, Data<br>Mining, Water<br>Quality Summary<br>Report |
| Related Table Names:                                                                                                               | Water Quality Data 70-74<br>Water Quality Data 75-79<br>Water Quality Data 80-84<br>Water Quality Data 85-89<br>Water Quality Data 90-94<br>Water Quality Data 95-97<br>Water Quality Parameter<br>Table | wq_d7074.dbf<br>wq_d7579.dbf<br>wq_d8084.dbf<br>wq_d8589.dbf<br>wq_d9094.dbf<br>wq_d9597.dbf<br>wq_parm.dbf |                                                                    |
| Bacteria Monitoring Stations & Data Summaries Source: USEPA Ref: <a href="http://www.epa.gov/storet">http://www.epa.gov/storet</a> | Bacteria Stations                                                                                                                                                                                        | bac_stat.dbf<br>bac_stat.shp<br>bac_stat.shx                                                                | Data Mining                                                        |
| Related Table Names:                                                                                                               | Bacteria Data 70-74 Bacteria Data 75-79 Bacteria Data 80-84 Bacteria Data 85-89 Bacteria Data 90-94 Bacteria Data 95-97 Bacteria Parameter Table                                                         | bc_d7074.dbf<br>bc_d7579.dbf<br>bc_d8084.dbf<br>bc_d8589.dbf<br>bc_d9094.dbf<br>bc_d9597.dbf<br>bc_parm.dbf |                                                                    |
| National Sediment Inventory<br>(NSI) Stations & Database<br>Source: USEPA                                                          | National Sediment Inventory<br>Stations                                                                                                                                                                  | nsi.dbf<br>nsi.shp<br>nsi.shx                                                                               |                                                                    |
| Related Table Names:                                                                                                               | NSI Biotoxicity Data<br>NSI Tissue Residue Data<br>NSI Reference Values<br>NSI Sediment Chemistry<br>Data<br>NSI Watershed Summary<br>Data                                                               | nsi_bio.dbf<br>nsi_tis.dbf<br>nsi_ref.dbf<br>nsi_sed.dbf<br>nsi_wsh.dbf                                     |                                                                    |

| Gage Sites<br>Source: USEPA                                                                                                                                          | USGS Gage Stations                                                         | gage.dbf<br>gage.shp<br>gage.shx                                                    |                                                                                                                                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Dam Locations Source: US Army Corps of Engineers (1996) Ref: <a href="http://www.nationalatlas.gov/atlasftp.html">http://www.nationalatlas.gov/atlasftp.html</a>     | Dam Locations                                                              | dam.dbf<br>dam.shp<br>dam.shx                                                       |                                                                                                                                           |
| Reach File, Version 1 (RF1) Source: USEPA Ref: <a href="http://www.epa.gov/enviro/html/esdls/data_sets.html">http://www.epa.gov/enviro/html/esdls/data_sets.html</a> | Reach File, V1                                                             | rf1.dbf<br>rf1.shp<br>rf1.shx                                                       | All report tools,<br>HSPF, QUAL2E                                                                                                         |
| Weather Station Sites Source: National Oceanic and Atmospheric Administration (NOAA) Ref: <a href="http://www.ncdc.noaa.gov">http://www.ncdc.noaa.gov</a>            | Weather Station Sites<br>Weather Station Area                              | metpt.dbf<br>metpt.shp<br>metpt.shx<br>met_stat.dbf<br>met_stat.shp<br>met_stat.shx |                                                                                                                                           |
| Drinking Water Supply (DWS) Sites Source: USEPA                                                                                                                      | Drinking Water Supply Sites                                                | dws.dbf<br>dws.shp<br>dws.shx                                                       |                                                                                                                                           |
| Watershed Data Stations & Database Source: NOAA Ref: <a href="http://www.ncdc.noaa.gov">http://www.ncdc.noaa.gov</a>                                                 | WDM Weather Data Stations                                                  | wdm.dbf<br>wdm.shp<br>wdm.shx                                                       | HSPF                                                                                                                                      |
| Hydrologic Unit Boundaries<br>Source: US Geological<br>Survey (USGS) Ref:<br>http://www.nationalatlas.gov/<br>hucsm.html                                             | Cataloging Unit Code Cataloging Unit Boundaries Accounting Unit Boundaries | cat.dbf cat.shp cat.shx catpt.dbf catpt.shp catpt.shx acc.dbf acc.shp acc.shx       | Data Extraction, Target, Assess, Data Mining, Watershed Delineation, all report tools, all utilities (except Lookup Tables), HSPF, QUAL2E |
| Major Roads Source: Federal Highway Administration Ref: <a href="http://www.nationalatlas.gov/">http://www.nationalatlas.gov/</a>                                    | Major Roads                                                                | fhards.dbf<br>fhards.shp<br>fhards.shx                                              |                                                                                                                                           |

| <u>roadsm.html</u>                                                                                                                                             |                                                |                                                                                                          |                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------|
| Populated Place Locations<br>Source: USGS                                                                                                                      | Place Names - (state postal abbreviation)      | (ST)ppl.dbf<br>(ST)ppl.shp<br>(ST)ppl.shx                                                                |                                   |
| Urbanized Areas Source: US Bureau of the Census Ref: <a href="http://www.nationalatlas.gov/urbanareasm.html">http://www.nationalatlas.gov/urbanareasm.html</a> | Urban Area Names<br>Urban Area Boundaries      | urban_nm.dbf<br>urban_nm.shp<br>urban_nm.shx<br>urban.dbf<br>urban.shp<br>urban.shx                      |                                   |
| State and County Boundaries Source: USGS Ref: <a href="http://www.nationalatlas.gov/countiesm.html">http://www.nationalatlas.gov/countiesm.html</a>            | County Names Cunty Boundaries State Boundaries | cntypt.dbf<br>cntypt.shp<br>cntypt.shx<br>cnty.dbf<br>cnty.shp<br>cnty.shx<br>st.dbf<br>st.shp<br>st.shx | Extraction                        |
| EPA Regions<br>Source: USEPA                                                                                                                                   | Region Boundaries                              | epa_reg.dbf<br>epa_reg.shp<br>epa_reg.shx                                                                | report tools                      |
| EPA Ecoregions Source: USEPA Ref: <a href="http://nsdi.epa.gov/nsdi/projects/useco.html">http://nsdi.epa.gov/nsdi/projects/useco.html</a>                      | Ecoregions (Level III)                         | ecoreg.dbf<br>ecoreg.shp<br>ecoreg.shx                                                                   |                                   |
| National Water Quality Assessment Study Unit Boundaries Source: USGS Ref: <a href="http://wwwrvares.er.usgs.gov/nawqa">http://wwwrvares.er.usgs.gov/nawqa</a>  | NAWQA Study Unit<br>Boundaries                 | nawqa.dbf<br>nawqa.shp<br>nawqa.shx                                                                      |                                   |
| Minerals Availability<br>System/Mineral Industry<br>Location (MAS/MILS)<br>Source: US Bureau of Mines                                                          | Mineral Data                                   | mines.dbf<br>mines.shp<br>mines.shx                                                                      |                                   |
| Water Quality Stations and<br>Observation Data<br>Source: USEPA                                                                                                | Water Quality Observation<br>Stations          | wqobs.dbf<br>wqobs.shp<br>wqobs.shx                                                                      | Water Quality<br>Management tools |

| Ref:<br>http://www.epa.gov/storet                                                                                                                                                                         |                                               | (cu).dbf<br>wqobs_prm.dbf                                                                 |                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1996 Clean Water Needs<br>Survey<br>Source: USEPA                                                                                                                                                         | 1996 Clean Water Needs<br>Survey              | 1996cwns.dbf<br>1996cwns.shp<br>1996cwns.shx                                              |                                                                                     |
| State Soil and Geographic (STATSGO) Database Source: USDA-NRCS Ref. http://www.ftw.nrcs.usda.gov/stat_data.html                                                                                           | State Soil                                    | statsgo.dbf<br>statsgo.shp<br>statsgo.shx                                                 | State Soil<br>Characteristic Report                                                 |
| Related Table Names:                                                                                                                                                                                      | Soil Component Data<br>Soil Layer Data        | statsgoc.dbf<br>statsgol.dbf                                                              |                                                                                     |
| Managed Area Database<br>Source: National Aeronautics<br>and Space Administration<br>Ref:<br><a href="http://www.ncgia.ucsb.edu/sb/mod/mod.html">http://www.ncgia.ucsb.edu/sb/mod/mod.html</a>            | Managed Area Database                         | mad.dbf<br>mad.shp<br>mad.shx                                                             |                                                                                     |
| Classified Shellfish Areas<br>Source: NOAA<br>Ref: http://state-of-<br>coast.noaa.gov                                                                                                                     | Classified Shellfish Areas                    | csa.dbf<br>csa.shp<br>csa.shx                                                             |                                                                                     |
| Land Use and Land Cover<br>Souce: USGS<br>Ref:<br>http://nsdi.usgs.gov/nsdi/prod<br>ucts/lulc.html                                                                                                        | Land Use Index<br>L_(USGS Quadrangle<br>Name) | lulendx.dbf<br>lulendx.shp<br>lulendx.shx<br>l_(quad).dbf<br>l_(quad).shp<br>l_(quad).shx | Import Tool,<br>Landuse Distribution<br>Report, Landuse Re-<br>classification, HSPF |
| Reach File Version 3 (RF3) Alpha Release Source: USEPA and Reach File Version 2.1 Source: USGS Ref: <a href="http://www.streamnet.org/pnwr/pnwrhome.html">http://www.streamnet.org/pnwr/pnwrhome.html</a> | Reach File, V3 (CU)                           | (cu).dbf<br>(cu).shp<br>(cu).shx                                                          | Import Tool,<br>Watershed Reports,<br>HSPF                                          |
| Digital Elevation Map<br>Source: USGS<br>Ref:<br>http://edcwww.cr.usgs.gov/ns                                                                                                                             | DEM (CU)                                      | (cu).dbf<br>(cu).shp<br>(cu).shx                                                          | Import Tool,<br>Watershed<br>Topographic Report,<br>DEM Re-                         |

di/gendem.html classification

Listing of Fish and Wildlife

Advisories

Source: USEPA

Fish and Wildlife Advisory Related Table Names: lfwa96.dbf lfwa96ad.dbf

(1996)-Index

Fish and Wildlife Advisory

(1996)-Listing

Lookup Tables Lookup Tables

Related Table Names: Water Quality Criteria Table

STORET Agency Codes Standard Industrial

**Classification Codes** 

wqcriter.dbf storetag.dbf sic.dbf

<sup>\*</sup> In addition to ArcView standard mapping and analysis tools